



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of:

COOPER ET AL.

Application No. 10/609,019

Filed: June 26, 2003

For: GENE REGULATION IN TRANSGENIC
ANIMALS USING A TRANSPOSON-BASED VECTOR

)
)
)
) Examiner: Not yet assigned
)
) Art Unit: 1646
)
)
)
)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The citation of information on the attached Form PTO/SB/08 is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

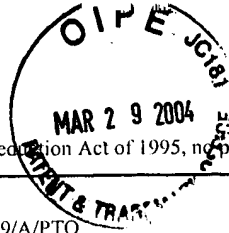
Respectfully submitted,

By: John K. McDonald, Ph.D.
Reg. No. 42,860

KILPATRICK STOCKTON LLP
1100 Peachtree Street
Suite 2800
Atlanta, Georgia 30309-4530
(404) 815-6500
Our Docket: 51687-0101 (51687-287015)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in a box addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 25, 2004.

John K. McDonald, Ph.D. – Reg. No. 42,860



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application No.	10/609,019
				Filing Date	06-26-2003
				First Named Inventor	Cooper
				Group Art Unit	1646
Examiner Name	Not Yet Assigned				
Sheet	1	of	6	Attorney Docket Number	51687-0101 (51687-287015)

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ²	Kind Code ³ (if known)			
	1	4,670,388		Rubin et al.	06/02/1987	
	2	4,914,025		Manoil et al.	04/03/1990	
	3	5,102,797		Tucker et al.	04/07/1992	
	4	5,212,080		Nag et al.	05/18/1993	
	5	5,556,782		Cooper et al.	09/17/1996	
	6	5,645,991		Berg et al.	07/08/1997	
	7	5,733,779		Reff	03/31/1998	
	8	5,753,502		Kilgannon et al.	05/19/1998	
	9	5,869,296		Nag et al.	02/09/1999	
	10	5,925,545		Reznikoff et al.	07/20/1999	
	11	5,948,622		Reznikoff et al.	09/07/1999	
	12	5,958,775		Wickstrom et al.	09/28/1999	
	13	5,965,443		Reznikoff et al.	10/12/1999	
	14	5,998,698		Cooper et al.	12/07/1999	
	15	6,107,477		Whitney et al.	08/22/2000	
	16	6,156,568		Cooper et al.	12/05/2000	
	17	6,159,730		Reff	12/12/2000	
	18	6,159,736		Reznikoff et al.	12/12/2000	
	19	6,258,571		Chumakov et al.	07/10/2001	
	20	6,291,214		Richards et al.	09/18/2001	
	21	6,475,798		Fogarty et al.	11/05/2002	
	22	6,492,510		Hasebe et al.	12/10/2002	
	23	6,503,729		Bult et al.	01/07/2003	
	24	6,514,728		Kai et al.	02/04/2003	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

*Applicant is to place a check mark here if English language translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application No.	10/609,019
				Filing Date	06-26-2003
				First Named Inventor	Cooper
				Group Art Unit	1646
				Examiner Name	Not Yet Assigned
Sheet	2	of	6	Attorney Docket Number	51687-0101 (51687-287015)

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ⁴	Kind Code ³ (if known)			
	25	6,515,199		Petitte et al.	02/04/2003	
	26	6,528,699		Meade et al.	03/04/2003	
	27	6,563,017		Muramatsu et al.	05/13/2003	
	28	2002/0007051		Cheo et al.	01/17/2002	
	29	2002/0028513		Fogarty et al.	03/07/2002	
	30	2002/0042137		Richards et al.	04/11/2002	
	31	2002/0052047		Hasebe et al.	05/02/2002	
	32	2002/0055172		Harrington	05/09/2002	
	33	2002/0119573		Shaw et al.	08/29/2002	
	34	2002/0132349		Goryshin et al.	09/19/2002	
	35	2002/0148000		Shen	10/10/2002	
	36	2002/0150577		Lee et al.	10/17/2002	
	37	2002/0151034		Zhang et al.	10/17/2002	
	38	2002/0157125		Lee et al.	10/24/2002	
	39	2002/0160507		Novy et al.	10/31/2002	
	40	2002/0188105		Craig et al.	12/12/2002	
	41	2002/0199214		Rapp	12/26/2002	
	42	2003/0009026		Hasebe et al.	01/09/2003	
	43	2003/0055017		Schwarz et al.	03/20/2003	
	44	2003/0056241		Matsuda et al.	03/20/2003	
	45	2003/0061629		Sutrave	03/27/2003	
	46	2003/0074680		Lee et al.	04/17/2003	
	47	2003/0074681		Macarthur	04/17/2003	
	48	2003/0101472		Baltimore et al.	05/29/2003	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

*Applicant is to place a check mark here if English language translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application No.	10/609,019
				Filing Date	06-26-2003
				First Named Inventor	Cooper
				Group Art Unit	1646
				Examiner Name	Not Yet Assigned
Sheet	3	of	6	Attorney Docket Number	51687-0101 (51687-287015)

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ⁴	Kind Code ³ (if known)			
	49	2003/0115622		Ponce de Leon et al.	06/19/2003	
	50	2003/0126628		Harvey et al.	07/03/2003	
	51	2003/0126629		Rapp et al.	07/03/2003	
	52	2003/0140363		Rapp	07/24/2003	
	53	2003/0150006		Petit et al.	08/07/2003	
	54	2003/0154502		Wimmer et al.	08/14/2003	
	55	2003/0167492		Lee et al.	09/04/2003	
	56	2003/0170888		Van de Lavoie et al.	09/11/2003	
	57	2003/0172387		Zhu et al.	09/11/2003	
	58	2003/0177516		Horseman et al.	09/18/2003	
	59	2003/0182672		Graham et al.	09/25/2003	
	60	2003/0182675		Etches et al.	09/25/2003	
	61	2003/0217375		Zcharia et al.	11/20/2003	
	62	2003/0221206		Schatten et al.	11/27/2003	
	63	2004/0019922		Ivarie et al.	01/09/2004	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

*Applicant is to place a check mark here if English language translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known				
				Application No.		10/609,019		
				Filing Date		06-26-2003		
				First Named Inventor		Cooper		
				Group Art Unit		1646		
				Examiner Name		Not Yet Assigned		
Sheet	4	of	6	Attorney Docket Number		51687-0101 (51687-287015)		
FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	64	EP	1,375,654		GTC Biotherapeutics, Inc.	01/02/2004		
	65	WO	03/024199		Avigenics, Inc.	03/27/2003		
	66	WO	03/025146		Avigenics, Inc.	03/27/2003		
	67	WO	03/064627		Origen Therapeutics	08/07/2003		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known		
				Application No.	10/609,019	
				Filing Date	06-26-2003	
				First Named Inventor	Cooper	
				Group Art Unit	1646	
				Examiner Name	Not Yet Assigned	
Sheet	5	of	6	Attorney Docket Number		51687-0101 (51687-287015)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	68	Author: CIAMPI, M.S. et al. Title: Transposon Tn10 Provides a Promoter for transcription of adjacent sequences Publ: Proc Natl Acad Sci USA Vol/Iss: 79(16) Pages: 5016-5020 Date: 08-01-1982	
	69	Author: DAVIS, M.A. et al. Title: Tn10 Protects Itself at two levels from fortuitous activation by external promoters Publ: Cell Vol/Iss: 43(1) Pages: 379-387 Date: 11-11-1985	
	70	Author: ETCHES et al. Title: Gene Transfer: Overcoming the Avian Problems (Abstract Provided) Publ: Proceedings, 5th World Congress, University of Guelph Vol/Iss: Vol. 20 Pages: 97-101 Date: 08-01-1994	
	71	Author: FONG, K.P. et al. Title: The genes for benzene catabolism in Pseudomonas putida ML2 are flanked by two copies of the insertion element IS1489, forming a class-I-type catabolic transposon, Tn5542 Publ: Plasmid Vol/Iss: 43(2) Pages: 103-110 Date: 03-01-2000	
	72	Author: HERMANN et al. Title: Lipoprotein Receptors in Extraembryonic Tissues of the Chicken Publ: J. Biol. Chem. Vol/Iss: Vol. 275 No. 22 Pages: 16837-16844 Date: 06-02-2000	
	73	Author: KLECKNER, N. et al. Title: Transposon Tn10: genetic organization, regulation and insertion specificity Publ: Fed Proc Vol/Iss: 41(10) Pages: 2649-2652 Date: 08-01-1982	
	74	Author: PRUDHOMME, M. et al. Title: Diversity of Tn4001 transposition products: the flanking IS256 elements can form tandem dimers and IS circles Publ: J Bacteriol Vol/Iss: 184(2) Pages: 433-443 Date: 01-01-2002	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application No.	10/609,019
				Filing Date	06-26-2003
				First Named Inventor	Cooper
				Group Art Unit	1646
				Examiner Name	Not Yet Assigned
Sheet	6	of	6	Attorney Docket Number	51687-0101 (51687-287015)
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
	75	Author: SAKAI, J. et al. Title: Two classes of Tn10 transposase mutants that suppress mutations in the Tn10 terminal inverted repeat Publ: <u>Genetics</u> Vol/Iss: 144(3) Pages: 861-870 Date: 11-01-1996			
	76	Author: SASAKAWA, C. et al. Title: Control of transposon Tn5 transposition in Escherichia coli Publ: <u>Prod Natl Acad Sci USA</u> Vol/Iss: 79(23) Pages: 7450-7454 Date: 12-01-1982			
	77	Author: SEKINE, Y. et al. Title: Identification of the site of translational frameshifting required for production of the transposase encoded by insertion sequence IS 1 Publ: <u>Mol Gen Genet</u> Vol/Iss: 235(2-3) Pages: 317-324 Date: 11-01-1992			
	78	Author: SEKINE, Y. et al. Title: DNA Sequences required for translational frameshifting in production of the transposase encoded by IS1 Publ: <u>Mol Gen Genet</u> Vol/Iss: 235(2-3) Pages: 325-332 Date: 11-01-1992			
	79	Author: SIMONS, R.W. et al. Title: Translational Control of IS10 transposition Publ: <u>Cell</u> Vol/Iss: 34(2) Pages: 683-691 Date: 09-01-1983			
	80	Author: WANG, A. et al. Title: Activation of silent genes by transposons Tn5 and Tn10. Publ: <u>Genetics</u> Vol/Iss: 120(4) Pages: 875-885 Date: 12-01-1988			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.